

# ABSTRACT

A transmission system having a plurality of gear ratios (15, 17), a selector means (13) assembly for selectively engaging the gear ratios, and a control system ~~including means for measuring arranged to measure the amount of~~ deformation caused by torque in the transmission system (63, 64) in at least one static component or assembly (50) that is deformed due to torque in the transmission system ; ~~and means for controlling the torque in the transmission (2, 24),~~ wherein the control system is arranged to measure deformation and to adjust the torque in the transmission system according to the measured deformation and a known relationship between the gear ratios, wherein the transmission system is arranged such that selection of a new gear ratio occurs almost instantaneously without substantial power interruption.